

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO.

1614.1220

APPLICATION NO.

FIRST NAMED INVENTOR

Shigemitsu AOKI, et al.

FILING DATE

March 5, 2002

GROUP ART UNIT

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

11002 U.S. PTO
10/087849
03/05/02

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
LD	AG	5-8483	02/1993	Japan				X
	AH	5-70164	09/1993	Japan				X
	AI	6-215744	08/1994	Japan			X	
	AJ	7-122168	05/1995	Japan			X	
	AK	8-83627	03/1996	Japan			X	
	AL	8-339752	12/1996	Japan			X	

OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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EXAMINER

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DATE CONSIDERED

07-07-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	ATTORNEY DOCKET NO. 1614.1220	APPLICATION NO. 10/087,849
	FIRST NAMED INVENTOR Shigemitsu AOKI, et al.	
	FILING DATE March 5, 2002	GROUP ART UNIT 2836

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
LD	AA	3,952,271	04/1976	Smirnov et al.			
	AB	5,239,202	08/1993	Hostetler			
	AC	3,218,406	11/1965	Gomperts et al.			
	AD	5,668,533	09/1997	Jackson, Jr. et al.			
	AE	4,091,346	05/1978	Nishimura et al.			
	AF	6,014,008	01/2000	Hartzell et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
LD	AG	0 304 185	02/1989	European Patent Office			X	
LD	AH	100 48 880	04/2002	Germany				
	AI							
	AJ							
	AK							
	AL							

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		FIRST NAMED INVENTOR Shigemitsu AOKI, et al.	
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U.S. PATENT DOCUMENTS

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	BA						
	BB						
	BC						
	BD						
	BE						
	BF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
LD	BG	9-7478	01/1997	Japan			X
	BH	9-212757	08/1997	Japan			X
	BI	10-12109	01/1998	Japan			X
	BJ	11-8942	01/1999	Japan			X
	BK	11-232975	08/1999	Japan			X
	BL	2000-235828	08/2000	Japan			X
	BM	2000-40452	02/2000	Japan			X

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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FORM PTO-1412 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. 1614.1220	APPLICATION NO. 10/087,849
	FIRST NAMED INVENTOR Shigemitsu AOKI, et al.	
	FILING DATE March 5, 2002	GROUP ART UNIT 2836

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
<i>LD</i>	AA	3,575,678	04/1971	Barton			
	AB	4,284,904	08/1981	Tetro			
	AC	5,633,626	05/1997	Cawthorne			
	AD	6,025,768	02/2000	Martich			
	AE	6,348,861	02/2002	Li			
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
	AG							
	AH							
	AI							
	AJ							
	AK							
	AL							

OTHER REFERENCES *(Including Author, Title, Date, Pertinent Pages, Etc.)*

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EXPLANATIONS OF RELEVANCY OF REFERENCES	ATTORNEY DOCKET NO. 1614.1220	APPLICATION NO.
	FIRST NAMED INVENTOR Shigemitsu AOKI, et al.	
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Each of the references relates to background technology, and do not disclose or suggest patentable features of the present invention.

Japanese Reference AG relates to a proximity sensor 1 including a permanent magnet 3 having a through-hole extending in a direction of magnetization and yoke pieces 4A, 4B provided on both pole surfaces of the permanent magnet 3. In order to detect change of magnetic flux in the through-hole due to a magnetic body approaching the proximity switch, a lead switch 5 or an electro-magnetic conversion element is provided in th through-hole 2.

Japanese Reference AH relates to a direct-current vibrator including a cylindrical body 1 having a movable member provided with a permanent magnet 8 magnetized along the longitudinal direction and a weight 7, which cylindrical body 1 is supported at both end surfaces of the permanent magent 8 by an initial position determining spring 3 and a shock-absorbing spring 5 in a floated manner, a driving coil 2 wound around the cylindrical body 2 at the positin of thepermanent magent 8 and a lead switch 10 provided with a non-magnetic yoke 9 surrounded by soft magnetic material. Above-described elements are connected such that a repulsive force is produced by a magnetic field generated by the driving coil and a magnetic field generated by the permanent magnet.